

# SAFETY DATA SHEET

Version #: 01

Issue date: 07-24-2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name or designation of the mixture** WB S Component A

**Registration number** -

**Synonyms** None.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Not available.

**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

**Company name** ITW Performance Polymers

**Address** Bay 150  
Shannon Industrial Estate  
Co. Clare, Ireland

#### Division

**Telephone** Phone 353(61)771500

**e-mail** customerservice.shannon@itwpp.com

**Contact person** Not available.

**1.4. Emergency telephone number** Emergency Number 44(0)1235 239 670

**General in EU** 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Austria National Poisons Information Center** +431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Belgium National Poisons Control Center** 070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Bulgaria National Toxicological Information Center** +359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Croatia Poisons Information Center** +385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

**Cyprus Poison Center** 1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Czech Republic National Poisons Information Center** +420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

**Denmark National Poisons Control Center** +45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Estonia National Poisons Information Center** 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)

**Finland National Poison Information Center** (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**France National Poisons Control Center** ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

<b>Greece Poison Information Centre</b>	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Hungary National Emergency Phone Number</b>	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Iceland Poison Center</b>	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Latvia Emergency medical aid</b>	113
<b>Latvia Poison and Drug Information Center</b>	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Lithuania Neatidēliotina informacija apsinuodijus</b>	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Malta Accident and Emergency Department</b>	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Netherlands National Poisons Information Center (NVIC)</b>	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
<b>Norway Norwegian Poison Information Center</b>	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Portugal Poison Center</b>	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Romania Biroul RSI si Informare Toxicologica</b>	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
<b>Slovakia National Toxicological Information Center</b>	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Spain Toxicology Information Service</b>	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Sweden National Poison Information Center</b>	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Switzerland Tox Info Suisse</b>	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Flammable liquids	Category 3	H226 - Flammable liquid and vapor.
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##### Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.

##### Environmental hazards

Hazardous to the aquatic environment, acute aquatic hazard	Category 1	H400 - Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

## Label according to Regulation (EC) No. 1272/2008 as amended

### UFI:

Austria: 6600-V06A-500R-4F8T  
Belgium: 6600-V06A-500R-4F8T  
Bulgaria: 6600-V06A-500R-4F8T  
Croatia: 6600-V06A-500R-4F8T  
Cyprus: 6600-V06A-500R-4F8T  
Czech Republic: 6600-V06A-500R-4F8T  
Denmark: 6600-V06A-500R-4F8T  
Estonia: 6600-V06A-500R-4F8T  
EU: 6600-V06A-500R-4F8T  
Finland: 6600-V06A-500R-4F8T  
France: 6600-V06A-500R-4F8T  
Germany: 6600-V06A-500R-4F8T  
Greece: 6600-V06A-500R-4F8T  
Hungary: 6600-V06A-500R-4F8T  
Iceland: 6600-V06A-500R-4F8T  
Ireland: 6600-V06A-500R-4F8T  
Italy: 6600-V06A-500R-4F8T  
Latvia: 6600-V06A-500R-4F8T  
Lithuania: 6600-V06A-500R-4F8T  
Luxembourg: 6600-V06A-500R-4F8T  
Malta: 6600-V06A-500R-4F8T  
Netherlands: 6600-V06A-500R-4F8T  
Norway: 6600-V06A-500R-4F8T  
Poland: 6600-V06A-500R-4F8T  
Portugal: 6600-V06A-500R-4F8T  
Romania: 6600-V06A-500R-4F8T  
Slovakia: 6600-V06A-500R-4F8T  
Slovenia: 6600-V06A-500R-4F8T  
Spain: 6600-V06A-500R-4F8T  
Sweden: 6600-V06A-500R-4F8T

### Contains:

EPOXY TERMINATED POLYSULPHIDE POLYMER, ethylbenzene, o-xylene, [1] p-xylene, [2] m-xylene, [3] xylene [4], reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700), trizinc bis(orthophosphate), zinc oxide

### Hazard pictograms



### Signal word

Warning

### Hazard statements

H226	Flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist/vapors.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

#### Response

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use appropriate media to extinguish.  
P391 Collect spillage.

#### Storage

P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

#### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Supplemental label information

72,5% of the mixture consists of component(s) of unknown acute oral toxicity. 75,5% of the mixture consists of component(s) of unknown acute dermal toxicity. 72,5% of the mixture consists of component(s) of unknown acute inhalation toxicity. 80% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 20% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

#### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	30-60%	25068-38-6 500-033-5	01-2119456619-26-0000	603-074-00-8	
<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Chronic 2;H411					
<b>Specific Concentration Limits:</b> Skin Irrit. 2;H315: C ≥ 5 %, Eye Irrit. 2;H319: C ≥ 5 %					
EPOXY TERMINATED POLYSULPHIDE POLYMER	10-30%	117527-71-6 -	-	-	
<b>Classification:</b> -					
ethylbenzene	5-10%	100-41-4 202-849-4	-	601-023-00-4	#
<b>Classification:</b> Flam. Liq. 2;H225, Acute Tox. 4;H332;(ATE: 11 mg/l), Carc. 2;H351, STOT RE 2;H373, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	5-10%	1330-20-7 215-535-7	-	601-022-00-9	#
<b>Classification:</b> Flam. Liq. 3;H226, Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Acute Tox. 4;H332;(ATE: 11 mg/l), Skin Irrit. 2;H315, Aquatic Chronic 2;H411					
trizinc bis(orthophosphate)	5-10%	7779-90-0 231-944-3	-	030-011-00-6	
<b>Classification:</b> Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
zinc oxide	1-5%	1314-13-2 215-222-5	-	030-013-00-7	
<b>Classification:</b> Aquatic Acute 1;H400, Aquatic Chronic 1;H410					

Other components below reportable levels

#### List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Composition comments

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

<b>General information</b>	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Flammable liquid and vapor.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
<b>For emergency responders</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	<p>Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.</p> <p>Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.</p>
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tons; Upper-tier requirements = 200 tons)

- E1 Hazardous to the Aquatic Environment Acute (Lower-tier requirements = 100 tons; Upper-tier requirements = 200 tons)

- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tons; Upper-tier requirements = 500 tons)

### 7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m <sup>3</sup>	
		200 ppm	
	MAK	440 mg/m <sup>3</sup> 100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	MAK	221 mg/m <sup>3</sup>	
		50 ppm	
	STEL	442 mg/m <sup>3</sup> 100 ppm	
zinc oxide (CAS 1314-13-2)	MAK	5 mg/m <sup>3</sup>	Fume and respirable dust.
	STEL	20 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Inhalable fraction. Respirable fraction.

#### Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	551 mg/m <sup>3</sup>	
		125 ppm	
	TWA	87 mg/m <sup>3</sup> 20 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>	
		100 ppm	
	TWA	221 mg/m <sup>3</sup> 50 ppm	

**Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended**

Components	Type	Value	Form
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

**Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
	TWA	435 mg/m3
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3
	TWA	5 mg/m3

**Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	MAC	442 mg/m3	
		100 ppm	
	STEL	884 mg/m3	
		200 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	MAC	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
		100 ppm	
zinc oxide (CAS 1314-13-2)	MAC	2 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended**

Components	Type	Value	Form
zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.

**Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

**Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	Ceiling	500 mg/m <sup>3</sup>
	TWA	200 mg/m <sup>3</sup>
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Ceiling	400 mg/m <sup>3</sup>
	TWA	200 mg/m <sup>3</sup>
zinc oxide (CAS 1314-13-2)	Ceiling	5 mg/m <sup>3</sup>
	TWA	2 mg/m <sup>3</sup>

**Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	TLV	217 mg/m <sup>3</sup>
		50 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TLV	109 mg/m <sup>3</sup>
		25 ppm
zinc oxide (CAS 1314-13-2)	TLV	4 mg/m <sup>3</sup>

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m <sup>3</sup>
		200 ppm
		442 mg/m <sup>3</sup>
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	100 ppm
		450 mg/m <sup>3</sup>
		100 ppm
zinc oxide (CAS 1314-13-2)	TWA	200 mg/m <sup>3</sup>
		50 ppm
		5 mg/m <sup>3</sup>

**Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	880 mg/m <sup>3</sup>	
		200 ppm	
		220 mg/m <sup>3</sup>	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	50 ppm	
		440 mg/m <sup>3</sup>	
		100 ppm	
zinc oxide (CAS 1314-13-2)	TWA	220 mg/m <sup>3</sup>	
		50 ppm	
		10 mg/m <sup>3</sup>	Fume.
	TWA	2 mg/m <sup>3</sup>	Fume.

**France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	VLE	442 mg/m <sup>3</sup>
		100 ppm



**France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended**

Components	Type	Value
	VME	88,4 mg/m3 20 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	VLE	442 mg/m3
	VME	100 ppm 221 mg/m3 50 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3	
<b>Regulatory status:</b> Regulatory binding (VRC)		100 ppm	
<b>Regulatory status:</b> Regulatory binding (VRC)	VME	88,4 mg/m3	
<b>Regulatory status:</b> Regulatory binding (VRC)		20 ppm	
<b>Regulatory status:</b> Regulatory binding (VRC)	VLE	442 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)		100 ppm	
<b>Regulatory status:</b> Regulatory binding (VRC)		221 mg/m3	
<b>Regulatory status:</b> Regulatory binding (VRC)	VME	50 ppm	
<b>Regulatory status:</b> Regulatory binding (VRC)		5 mg/m3	Fume.
zinc oxide (CAS 1314-13-2)	VME	10 mg/m3	Dust.
<b>Regulatory status:</b> Indicative limit (VL)			
<b>Regulatory status:</b> Indicative limit (VL)			

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3 20 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	220 mg/m3 50 ppm	
trizinc bis(orthophosphate) (CAS 7779-90-0)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	AGW	88 mg/m3 20 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	AGW	220 mg/m3 50 ppm	

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
zinc oxide (CAS 1314-13-2)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

**Greece. OELs, Presidential Decree No. 307/1986, as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
		435 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	100 ppm	
		650 mg/m3	
		150 ppm	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
		5 mg/m3	Fume.
		5 mg/m3	Fume.

**Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		442 mg/m3	
		442 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	221 mg/m3	
		5 mg/m3	Fume.
		5 mg/m3	Dust.

**Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
		200 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	50 ppm	
		442 mg/m3	
		100 ppm	
zinc oxide (CAS 1314-13-2)	TWA	109 mg/m3	
		25 ppm	
		4 mg/m3	Fume.

**Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
		442 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	100 ppm	
		442 mg/m3	
		100 ppm	

**Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations**

Components	Type	Value	Form
zinc oxide (CAS 1314-13-2)	TWA	221 mg/m3 50 ppm	
	STEL	10 mg/m3	Respirable fraction and fume.
	TWA	2 mg/m3	Respirable fraction and fume.

**Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3 200 ppm	
	TWA	442 mg/m3 100 ppm	
	STEL	442 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	100 ppm 221 mg/m3 50 ppm	
	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

**Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3 200 ppm
	TWA	442 mg/m3 100 ppm
	STEL	442 mg/m3
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	100 ppm 221 mg/m3 50 ppm
	TWA	0,5 mg/m3

**Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3 200 ppm
	TWA	442 mg/m3 100 ppm
	STEL	442 mg/m3
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	100 ppm 221 mg/m3 50 ppm
	TWA	5 mg/m3

**Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m <sup>3</sup>
		200 ppm
	TWA	442 mg/m <sup>3</sup> 100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup> 50 ppm

**Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m <sup>3</sup>
		200 ppm
	TWA	442 mg/m <sup>3</sup> 100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup> 50 ppm

**Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended**

Components	Type	Value
ethylbenzene (CAS 100-41-4)	STEL	430 mg/m <sup>3</sup>
	TWA	215 mg/m <sup>3</sup>
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
	TWA	210 mg/m <sup>3</sup>

**Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	TLV	20 mg/m <sup>3</sup>	
		5 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TLV	108 mg/m <sup>3</sup>	
		25 ppm	
zinc oxide (CAS 1314-13-2)	TLV	5 mg/m <sup>3</sup>	Dust.
		5 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total dust.

**Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	400 mg/m <sup>3</sup>	
	TWA	200 mg/m <sup>3</sup>	

**Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)**

Components	Type	Value	Form
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	200 mg/m <sup>3</sup>	
	TWA	100 mg/m <sup>3</sup>	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m <sup>3</sup>	Inhalable fraction.
	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

**Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m <sup>3</sup>	
	TWA	200 ppm 442 mg/m <sup>3</sup> 100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>	
	TWA	100 ppm 221 mg/m <sup>3</sup> 50 ppm	

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
	STEL	150 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	100 ppm	
	STEL	10 mg/m <sup>3</sup>	Respirable fraction.
zinc oxide (CAS 1314-13-2)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.

**Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m <sup>3</sup>	
	TWA	200 ppm 442 mg/m <sup>3</sup> 100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>	
	TWA	100 ppm 221 mg/m <sup>3</sup> 50 ppm	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m <sup>3</sup>	Fume.
	TWA	5 mg/m <sup>3</sup>	Fume.

**Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m <sup>3</sup>	
	TWA	200 ppm 442 mg/m <sup>3</sup> 100 ppm	

**Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)**

Components	Type	Value	Form
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
trizinc bis(orthophosphate) (CAS 7779-90-0)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
zinc oxide (CAS 1314-13-2)	STEL	1 mg/m3	Respirable fume.
	TWA	1 mg/m3	Respirable fume.

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	221 mg/m3	
		50 ppm	
zinc oxide (CAS 1314-13-2)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

**Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	441 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

**Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Ceiling	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

**Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended**

Components	Type	Value	Form
zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Total dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	220 mg/m3	
		50 ppm	
	TWA	220 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	870 mg/m3	
		200 ppm	
	TWA	435 mg/m3	
zinc oxide (CAS 1314-13-2)	STEL	3 mg/m3	Respirable fume.
	TWA	3 mg/m3	Respirable fume.

**UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	552 mg/m3	
		125 ppm	
	TWA	441 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	441 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

**Biological limit values**

**Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	1,5 g/g	Mandelic acid	Creatinine in urine	*
	1,5 mg/l	ethylbenzene	Blood	*

**Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended**

Components	Value	Determinant	Specimen	Sampling Time
	1,12 mol/mol	Mandelic acid	Creatinine in urine	*
	14,1 umol/l	ethylbenzene	Blood	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1,5 g/g	Methylhippuric acids	Creatinine in urine	*
	1,5 mg/l	xylene	Blood	*
	0,88 mol/mol	Methylhippuric acids	Creatinine in urine	*
	14,13 umol/l	xylene	Blood	*

\* - For sampling details, please see the source document.

**Czech Republic. BELs. Government Decree 432/2003 Sb., as amended**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic acid	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Finland. HTP-arvot, App 2., Biological Limit Values, Social Affairs and Ministry of Health**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	5 mmol/l	Methylhippuric acids	Urine	*

\* - For sampling details, please see the source document.

**France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS), ND 2065)**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriques	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	250 mg/g	Mandelsäure plus Phenylglyoxylsäure	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	2000 mg/l	Methylhippur-(Tolur-) säure (alle Isomere)	Urine	*

\* - For sampling details, please see the source document.

**Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	1110 µmol/mmol	mandelic acid	Creatinine in urine	*
	1500 mg/g	mandelic acid	Creatinine in urine	*



**Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended**

Components	Value	Determinant	Specimen	Sampling Time
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*
	1500 mg/g	methyl hippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	8,03 mg/g	2 and 4-ethylphenol	Creatinine in urine	*
	12 mg/l	2 and 4-ethylphenol	Urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	xylene	Blood	*

\* - For sampling details, please see the source document.

**Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB)**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	700 mg/g	Suma del ácido mandélico y el ácido fenilgloxílico	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	600 mg/g	Mandelsäure + Phenylglyoxylsäure	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	2 g/l	Methylhippursäuren	Urine	*

\* - For sampling details, please see the source document.

**UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2**

Components	Value	Determinant	Specimen	Sampling Time
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines****Austria MAK: Skin designation**

ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) Can be absorbed through the skin.

**Belgium OELs: Skin designation**

ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Bulgaria OELs: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Croatia ELVs: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Czech Republic PELs: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Denmark GV: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Estonia OELs: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>EU Exposure Limit Values: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Finland Exposure Limit Values: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>France INRS: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>France Mandatory OELs (VLEP): Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Germany DFG MAK (advisory): Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Germany TRGS 900 Limit Values: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Greece OEL: Skin designation</b>	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Hungary OELs: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Iceland OELs: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Ireland Exposure Limit Values: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Italy OELs: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Danger of cutaneous absorption
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Danger of cutaneous absorption
<b>Latvia OELs: Skin designation</b>	
ethylbenzene (CAS 100-41-4)	Can be absorbed through the skin.

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.

#### **Lithuania OELs: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Luxembourg OELs: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Malta OELs: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Netherlands OELs (binding): Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Norway Exposure Limit Values: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Portugal OELs: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Romania OELs: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Slovakia OELs: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Spain OELs: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Sweden Threshold Limit Values: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **Switzerland SUVA Limit Values at the Workplace: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

#### **UK EH40 WEL: Skin designation**

ethylbenzene (CAS 100-41-4)  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]  
(CAS 1330-20-7)

Can be absorbed through the skin.  
Can be absorbed through the skin.

## **8.2. Exposure controls**

### **Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

### **Individual protection measures, such as personal protective equipment**

#### **General information**

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### **Eye/face protection**

Chemical respirator with organic vapor cartridge and full facepiece.

#### **Skin protection**

- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Color	Grey
Odor	Characteristic.
Melting point/freezing point	-138,82 °F (-94,9 °C) estimated
Boiling point or initial boiling point and boiling range	277,16 °F (136,2 °C) estimated
Flammability	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - upper (%)	6,8 % estimated
Flash point	80,6 °F (27,0 °C)
Auto-ignition temperature	810 °F (432,22 °C) estimated
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	11,73 hPa estimated
Density and/or relative density	
Density	1,45 g/cm <sup>3</sup>
Vapor density	Not available.
Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristics	
Specific gravity	1,45

## SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.  
**Skin contact** Causes skin irritation. May cause an allergic skin reaction.  
**Eye contact** Causes serious eye irritation.  
**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Not known.

Components	Species	Test Results
ethylbenzene (CAS 100-41-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	17800 mg/kg
<b>Oral</b>		
LD50	Rat	3500 mg/kg
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	3523 - 8600 mg/kg
zinc oxide (CAS 1314-13-2)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Mouse	> 5,7000000000000002 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5 g/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory sensitization</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Skin sensitization</b>	May cause an allergic skin reaction.	
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Carcinogenicity</b>	Suspected of causing cancer.	

#### IARC Monographs. Overall Evaluation of Carcinogenicity

ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.  
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** Not applicable.  
**Specific target organ toxicity - single exposure** Due to partial or complete lack of data the classification is not possible.  
**Specific target organ toxicity - repeated exposure** Not applicable.  
**Aspiration hazard** Not likely, due to the form of the product.  
**Mixture versus substance information** No information available.

### 11.2. Information on other hazards

**Endocrine disrupting properties** This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.  
**Other information** Not available.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
<b>12.2. Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.
<b>12.3. Bioaccumulative potential</b>	
<b>Partition coefficient n-octanol/water (log Kow)</b>	
ethylbenzene	3,15
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	3,12 - 3,2
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
<b>12.6. Endocrine disrupting properties</b>	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
<b>12.7. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
<b>12.8. Additional information</b>	
<b>Estonia Dangerous substances in soil Data</b>	
ethylbenzene (CAS 100-41-4)	ETHYLBENZENE 0,1 MG/KG ETHYLBENZENE 5 MG/KG ETHYLBENZENE 50 MG/KG
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Chemical pesticides (As the total sum of the active substances) 0,5 MG/KG Chemical pesticides (As the total sum of the active substances) 20 MG/KG Chemical pesticides (As the total sum of the active substances) 5 MG/KG
trizinc bis(orthophosphate) (CAS 7779-90-0)	Zinc (Zn) 1000 MG/KG Zinc (Zn) 200 MG/KG Zinc (Zn) 500 MG/KG
zinc oxide (CAS 1314-13-2)	Zinc (Zn) 1000 MG/KG Zinc (Zn) 200 MG/KG Zinc (Zn) 500 MG/KG

## SECTION 13: Disposal considerations

<b>13.1. Waste treatment methods</b>	
<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1866
<b>14.2. UN proper shipping name</b>	RESIN SOLUTION, flammable
<b>14.3. Transport hazard class(es)</b>	
Class	3
Subsidiary risk	-
Label(s)	3
Hazard No. (ADR)	30
Tunnel restriction code	D/E

- 14.4. Packing group III
- 14.5. Environmental hazards No.
- 14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**RID**

- 14.1. UN number UN1866
- 14.2. UN proper shipping name RESIN SOLUTION, flammable
- 14.3. Transport hazard class(es)
  - Class 3
  - Subsidiary risk -
  - Label(s) 3
- 14.4. Packing group III
- 14.5. Environmental hazards No.
- 14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**ADN**

- 14.1. UN number UN1866
- 14.2. UN proper shipping name RESIN SOLUTION, flammable
- 14.3. Transport hazard class(es)
  - Class 3
  - Subsidiary risk -
  - Label(s) 3
- 14.4. Packing group III
- 14.5. Environmental hazards No.
- 14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IATA**

- 14.1. UN number UN1866
- 14.2. UN proper shipping name Resin solution flammable
- 14.3. Transport hazard class(es)
  - Class 3
  - Subsidiary risk -
- 14.4. Packing group III
- 14.5. Environmental hazards No.
- ERG Code 3L
- 14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
- Other information
  - Passenger and cargo aircraft Allowed with restrictions.
  - Cargo aircraft only Allowed with restrictions.

**IMDG**

- 14.1. UN number UN1866
- 14.2. UN proper shipping name RESIN SOLUTION flammable
- 14.3. Transport hazard class(es)
  - Class 3
  - Subsidiary risk -
- 14.4. Packing group III
- 14.5. Environmental hazards
  - Marine pollutant No.
- EmS F-E, S-E
- 14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
- 14.7. Maritime transport in bulk according to IMO instruments Not established.



## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

trizinc bis(orthophosphate) (CAS 7779-90-0)

ethylbenzene (CAS 100-41-4)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)

zinc oxide (CAS 1314-13-2)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### UFI:

Austria: 6600-V06A-500R-4F8T  
 Belgium: 6600-V06A-500R-4F8T  
 Bulgaria: 6600-V06A-500R-4F8T  
 Croatia: 6600-V06A-500R-4F8T  
 Cyprus: 6600-V06A-500R-4F8T  
 Czech Republic: 6600-V06A-500R-4F8T  
 Denmark: 6600-V06A-500R-4F8T  
 Estonia: 6600-V06A-500R-4F8T  
 EU: 6600-V06A-500R-4F8T  
 Finland: 6600-V06A-500R-4F8T  
 France: 6600-V06A-500R-4F8T  
 Germany: 6600-V06A-500R-4F8T  
 Greece: 6600-V06A-500R-4F8T  
 Hungary: 6600-V06A-500R-4F8T  
 Iceland: 6600-V06A-500R-4F8T  
 Ireland: 6600-V06A-500R-4F8T  
 Italy: 6600-V06A-500R-4F8T  
 Latvia: 6600-V06A-500R-4F8T  
 Lithuania: 6600-V06A-500R-4F8T  
 Luxembourg: 6600-V06A-500R-4F8T  
 Malta: 6600-V06A-500R-4F8T  
 Netherlands: 6600-V06A-500R-4F8T  
 Norway: 6600-V06A-500R-4F8T  
 Poland: 6600-V06A-500R-4F8T  
 Portugal: 6600-V06A-500R-4F8T  
 Romania: 6600-V06A-500R-4F8T  
 Slovakia: 6600-V06A-500R-4F8T  
 Slovenia: 6600-V06A-500R-4F8T  
 Spain: 6600-V06A-500R-4F8T  
 Sweden: 6600-V06A-500R-4F8T

#### Authorizations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.



## Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended**  
- Conditions of restriction given for the associated entry number should be considered

ethylbenzene (CAS 100-41-4)	40
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	75

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**

Not listed.

## Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances  
Hazard categories in accordance with Regulation (EC) No 1272/2008  
- P5a, b or c FLAMMABLE LIQUIDS  
- E1 Hazardous to the Aquatic Environment Acute  
- E2 Hazardous to the Aquatic Environment Chronic

## Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

## National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances**

zinc oxide (CAS 1314-13-2)	Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen Gipsfasern und Wollastonitfasern)
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## France regulations

### France INRS Table of Occupational Diseases

ethylbenzene (CAS 100-41-4)	Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (CAS 25068-38-6)	Maladies professionnelles provoquées par les résines époxydiques et leurs constituants 51

## Product registration number

<b>Austria</b>	UFI: 6600-V06A-500R-4F8T
<b>Belgium</b>	UFI: 6600-V06A-500R-4F8T
<b>Czech Republic</b>	UFI: 6600-V06A-500R-4F8T
<b>Denmark</b>	UFI: 6600-V06A-500R-4F8T
<b>European Union</b>	UFI: 6600-V06A-500R-4F8T
<b>Finland</b>	UFI: 6600-V06A-500R-4F8T
<b>France</b>	UFI: 6600-V06A-500R-4F8T
<b>Germany</b>	UFI: 6600-V06A-500R-4F8T
<b>Greece</b>	UFI: 6600-V06A-500R-4F8T
<b>Hungary</b>	UFI: 6600-V06A-500R-4F8T
<b>Italy</b>	UFI: 6600-V06A-500R-4F8T
<b>Netherlands</b>	UFI: 6600-V06A-500R-4F8T
<b>Norway</b>	UFI: 6600-V06A-500R-4F8T
<b>Poland</b>	UFI: 6600-V06A-500R-4F8T
<b>Portugal</b>	UFI: 6600-V06A-500R-4F8T
<b>Slovakia</b>	UFI: 6600-V06A-500R-4F8T
<b>Slovenia</b>	UFI: 6600-V06A-500R-4F8T
<b>Spain</b>	UFI: 6600-V06A-500R-4F8T
<b>Sweden</b>	UFI: 6600-V06A-500R-4F8T
<b>Switzerland</b>	UFI: 6600-V06A-500R-4F8T

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MAC: Maximum Allowed Concentration.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TLV: Threshold Limit Value.  
TWA: Time Weighted Average.  
VLE: Exposure Limit Value.  
VME: Exposure Average Value.  
vPvB: Very persistent and very bioaccumulative.  
Not available.

## References

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapor.  
H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

## Revision information

None.

## Training information

Follow training instructions when handling this material.

## Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.